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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,760	01/14/2004	Thomas N. Chalin	WCMI-0039	4245
20558	7590 06/02/2006		EXAM	INER
SMITH IP SERVICES, P.C.			SLITERIS, JOSELYNN Y	
660 NORTH CENTRAL EXPRESSWAY SUITE 230 PLANO, TX 75074			ART UNIT	PAPER NUMBER
			3616	

DATE MAILED: 06/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/757,760	CHALIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joselynn Y. Sliteris	3616				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MON a, cause the application to become Al	CATION. reply be timely filed  VTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>03 A</u>						
<u>' —                                   </u>	, <del></del>					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,	,				
4) ⊠ Claim(s) <u>1-46</u> is/are pending in the application 4a) Of the above claim(s) <u>9,10,12,18,19,22-24</u> , 5) ☐ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1-5,8,11,20,25-31,39 and 42-44</u> is/are 7) ⊠ Claim(s) <u>6,7,13-17,21,32 and 37</u> is/are objecte 8) ☐ Claim(s) are subject to restriction and/o	<u>,33-36,38,40,41,45 and 46</u> e rejected. ed to.	වු is/are withdrawn from consideration.				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to drawing(s) be held in abeyation is required if the drawing	nce. See 37 CFR 1.85(a). I(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01142004; 03032004.	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

#### Election/Restrictions

- 1. Applicant's election of the species representatively illustrated in Figs. 1 & 2 in the reply filed on 4/3/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Applicant notes that claims 1-8, 11-17, 20, 21, 25-32, 37, 39, and 42-44 are allegedly drawn to the elected species as illustrated in Figs. 1 & 2. However, examiner disagrees and notes that claim 12 is not drawn to the elected species of Figs. 1 & 2. Therefore, claims 9, 10, 12, 18, 19, 22-24, 33-36, 38, 40, 41, 45, and 46 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 4/3/06.

#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-5, 8, 11, 20, 27, 28, and 44 are rejected under 35 U.S.C. 102(b) as being anticipated by Ferris (U.S. Patent 4,079,798).

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5. Regarding claim 1, Ferris discloses a liftable suspension system U as in the present invention, comprising:

first and second wheel spindles 25a, 25a (Fig. 3) positioned to extend outwardly at each respective lateral side of the vehicle C, the first and second spindles being displaceable independent of each other (abstract); and

an actuator 30 operable to raise at least the first spindle 25a, so that a tire 25 rotatably connected to the first spindle is liftable out of engagement with a road surface when the actuator raises the first spindle (Figs. 1-3).

6. Regarding claims 2-5, 8, 11, 20, Ferris discloses the suspension system U as in the present invention, wherein:

each of the first and second spindles 25a, 25a is rotatable;

each of the first and second spindles is rotatably connected to a respective one of first and second support devices 24, 24;

the first and second devices 24, 24 are independently displaceable relative to each other (abstract);

each of the first and second devices 24, 24 is pivotably connected to a frame 11a, 11b of the vehicle C when the suspension system is attached to the vehicle;

the actuator 30 is connected to the first device 24, so that the actuator 30 applies an upwardly biasing force to the first device when the actuator raises the first spindle;

each of the first and second devices 24, 24 is pivotably connected to a respective one of first and second arms 26, 26, each of the first and second arms being configured for pivotable connection to a frame 11a, 11b of the vehicle C;

the actuator 30 applies a force to the first arm 26 to thereby pivot the first arm relative to the first device when the first spindle is raised.

7. Regarding claim 27, Ferris discloses a liftable suspension system U as in the present invention, comprising:

first and second wheel spindles 25a, 25a (Fig. 3);

first and second support devices 24, 24, each of the first and second spindles extending outwardly relative to a respective one of the first and second support devices;

first and second arms 26, 26, each of the first and second support devices being pivotably connected to a respective one of the first and second arms, and each of the first and second arms being configured for pivotable connection to a frame 11a, 11b of the vehicle C; and

an actuator 30 operative to lift at least the first support device relative to the vehicle frame when the suspension system is attached to the frame,

and wherein the first and second support devices are displaceable relative to the vehicle frame independently of each other when the suspension system is attached to the frame (abstract).

8. Regarding claims 28 and 44, Ferris discloses the suspension system as in the present invention, wherein:

each of the first and second spindles 25a, 25a is rotatable relative to the respective one of the first and second devices 24, 24;

the actuator 30 is connected to the first device 24, so that the actuator 30 applies an upwardly biasing force to the first device to thereby lift the first device.

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9. Claims 27-30, 39, and 44 are rejected under 35 U.S.C. 102(b) as being anticipated by Burke (WO 02/26544), as cited by applicant.

10. Regarding claim 27, Burke discloses a liftable suspension system 700, 1000 (see annotated Figs. 7-10 attached) as in the present invention, comprising:

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first and second wheel spindles;

first and second support devices, each of the first and second spindles extending outwardly relative to a respective one of the first and second support devices (Figs. 7, 8);

first and second arms (Fig. 10), each of the first and second support devices being pivotably connected to a respective one of the first and second arms, and each of the first and second arms being configured for pivotable connection to a frame of the vehicle; and

an actuator 704, 804, 1002 operative to lift at least the first support device relative to the vehicle frame when the suspension system is attached to the frame,

and wherein the first and second support devices are displaceable relative to the vehicle frame independently of each other when the suspension system is attached to the frame (abstract).

11. Regarding claims 28-30, 39, and 44, Burke discloses the suspension system as in the present invention, wherein:

each of the first and second spindles is rotatable relative to the respective one of the first and second devices; Art Unit: 3616

each of the first and second devices has a respective one of first and second king pins secured thereto, and wherein each of the first and second spindles is pivotably connected to a respective one of the first and second king pins (Figs. 13A, 13B);

the suspension system is steerable by rotating the first and second spindles (Figs. 13A, 13B);

each of the first and second arms is part of a parallel link-type suspension (Fig. 10);

the actuator 704, 804, 1002 is connected to the first device, so that the actuator 704, 804, 1002 applies an upwardly biasing force to the first device to thereby lift the first device.

- 12. Claims 27-30, 39, and 44 are rejected under 35 U.S.C. 102(b) as being anticipated by Meritor product brochure, "Premium RideStar Suspension Systems", as cited by applicant.
- 13. Regarding claim 27, Meritor discloses a liftable suspension system (all drawings, especially the drawing labeled "RIS18 Independent Front Suspension" & "C Type-Heavy"), as in the present invention, comprising:

first and second wheel spindles;

first and second support devices, each of the first and second spindles extending outwardly relative to a respective one of the first and second support devices;

first and second arms, each of the first and second support devices being

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drawing attached).

pivotably connected to a respective one of the first and second arms, and each of the first and second arms being configured for pivotable connection to a frame of the vehicle; and

an actuator operative to lift at least the first support device relative to the vehicle frame when the suspension system is attached to the frame,

and wherein the first and second support devices are displaceable relative to the vehicle frame independently of each other when the suspension system is attached to the frame.

14. Regarding claims 28-30, 39, and 44, Meritor discloses the suspension system as in the present invention, wherein:

each of the first and second spindles is rotatable relative to the respective one of the first and second devices;

each of the first and second devices has a respective one of first and second king pins secured thereto, and wherein each of the first and second spindles is pivotably connected to a respective one of the first and second king pins;

the suspension system is steerable by rotating the first and second spindles;
each of the first and second arms is part of a parallel link-type suspension;
the actuator is connected to the first device, so that the actuator applies an
upwardly biasing force to the first device to thereby lift the first device (see annotated

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### Claim Rejections - 35 USC § 103

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claims 30 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferris (U.S. Patent 4,079,798) in view of Christenson et al. (U.S. Patent 5,597,174).
- 17. Regarding claims 30 and 31, Ferris discloses the claimed invention except for the suspension system being steerable by rotating the first and second spindles.

  Christenson discloses that it is known in the art to provide a suspension system steerable by rotating the first and second spindles (Fig. 14), wherein a tie rod 112 connected between the first and second spindles forces the first and second spindles to rotate together. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the suspension system of Ferris with the tie rod of Christenson, in order to provide steerability.
- 18. Claims 25, 26, 42, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferris (U.S. Patent 4,079,798).
- 19. Regarding claims 25, 26, 42, and 43, Ferris discloses the claimed invention except for at least one of the first and second arms being made of a composite material, wherein the composite material is a resin-impregnated fabric. It would have been obvious to one having ordinary skill in the art at the time the invention was made to

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make at least one of the first and second arms of a composite material, wherein the composite material is a resin-impregnated fabric, since a composite material is lightweight thus contributing to the vehicle's increased fuel economy and greatly reducing wear and tear on roadways, and since it since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. <u>In re Leshin</u>, 125 USPQ 416.

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- 20. Claims 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burke (WO 02/26544), as cited by applicant.
- 21. Regarding claims 42 and 43, Burke discloses the claimed invention except for at least one of the first and second arms being made of a composite material, wherein the composite material is a resin-impregnated fabric. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make at least one of the first and second arms of a composite material, wherein the composite material is a resin-impregnated fabric, since a composite material is lightweight thus contributing to the vehicle's increased fuel economy and greatly reducing wear and tear on roadways, and since it since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.
- 22. Claims 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meritor product brochure, "Premium RideStar Suspension Systems", as cited by applicant.

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23. Regarding claims 42 and 43, Meritor discloses the claimed invention except for at least one of the first and second arms being made of a composite material, wherein the composite material is a resin-impregnated fabric. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make at least one of the first and second arms of a composite material, wherein the composite material is a resin-impregnated fabric, since a composite material is lightweight thus contributing to the vehicle's increased fuel economy and greatly reducing wear and tear on roadways, and since it since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

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#### Allowable Subject Matter

24. Claims 6, 7, 13-17, 21, 32, and 37 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### Conclusion

- 25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joselynn Y. Sliteris whose telephone number is 571-

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272-6675. The examiner can normally be reached on Mon, Thurs & Fri 8:30 am - 5:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul N. Dickson can be reached on 571-272-6669. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Joselvnn Y. **S**literis

Patent Examiner

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**JYS** 5/30/06

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 3600** 

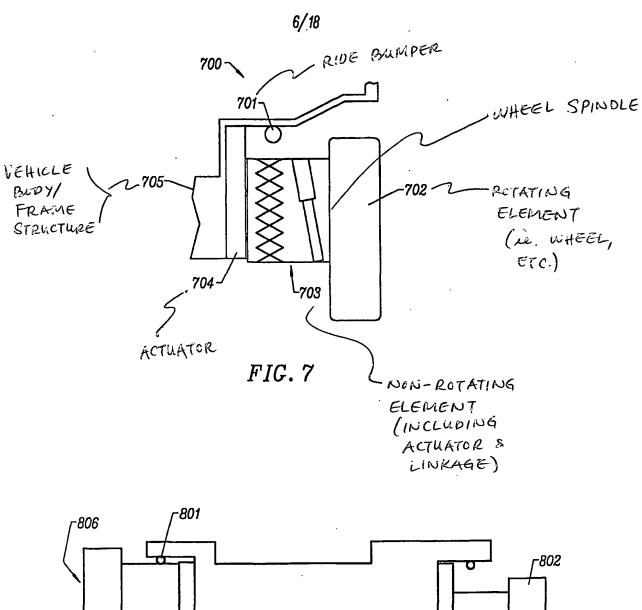
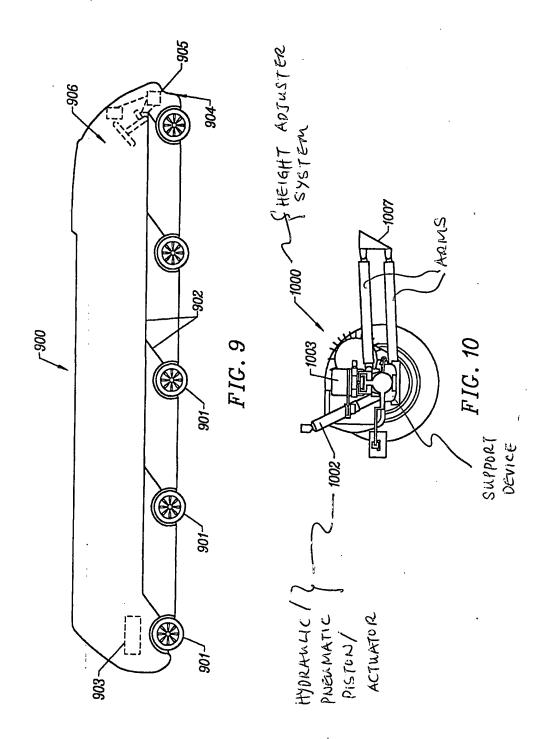


FIG. 8

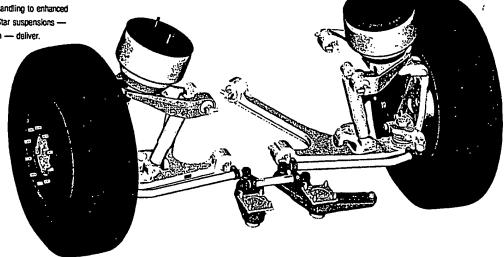
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RideStar dual wishbone suspensions have endured rigorous testing at the Bosch Proving Grounds, ensuring an unparalleled level of quality. From smooth ride and excellent handling to enhanced control characteristics, RideStar suspensions — and the people behind them — deliver.



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